STEP IN

DRIVE

FPV PILOTING SYSTEMS

USER MANUAL

Produced by: STEP IN S.r.l.

Sito: https://stepinfactory.com

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USER MANUAL STEP IN DRIVE
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1. Introduction

Thank you for purchasing STEP IN DRIVE, the innovative system that allows you to drive various RC car models—both electric and nitro-powered—in FPV mode or traditionally from a monitor, using commercial driving devices (simulators) to provide realistic driving sensations. We understand you are eager to test your new system on the road, but it is very important to take the time to read this User Manual. This manual contains all the configuration and operation procedures that will allow you to fully exploit the performance and potential designed by the STEP IN engineers. It also includes instructions for correct installation. Even if you are an experienced RC enthusiast, it is important to read and follow the procedures in this manual. Thank you again for choosing STEP IN. We truly want you to discover a new world in using your favorite RC model!

Technical Specifications – STEP IN DRIVE

Feature	Specification
Product Name	STEP IN DRIVE
Electronics Version	Cockpit V101 + Snorkel V200
Piloting Type	Digital FPV + Traditional (monitor)
Video System	CADDX Walksnail Avatar HD Pro (digital HD, low latency)
Maximum Video Resolution	1080p @ 60 fps / 720p @ 120 fps
Video Recording	32 GB Internal Memory + microSD on receiver (up to 256 GB recommended)
Radio Control	TBS Crossfire 2,4 GHz (Micro TX + Nano RX)
Typical Radio Range	> 5 km (open field, with standard antenna)
Control Channels	9 servo channels (8 V regulated) + AUX channels
Driving Feedback	Force Feedback configurable via App on compatible steering wheels/pedals
Snorkel Sensors	GPS + 6-axis IMU (accelerometer + gyroscope)
Snorkel Power Supply	2S LiPo only (7.4 V nominal) – XT30 connector
Cockpit Power Supply	5 V via USB-C (1–3 A)
Cockpit Connectors	2× USB-A (host), 1× USB-C (power), 3.5 mm mono audio jack
Snorkel Connectors	XT30 power, 9× servo connectors, USB-C (CADDX), SMA antennas
Snorkel Cooling	Integrated active fan
Cockpit Weight (with antennas)	120 g
Snorkel Weight (body + camera)	110 g (90 g body + 20 g camera)
Cockpit Dimensions	83 × 42 × 119 mm (with antennas)
Snorkel Dimensions (body)	≈ 125 × 85 × 45 mm
Operating Temperature	0 °C ÷ 50 °C
Configuration App	StepIn App (iOS + Android) – Bluetooth
Customizable OSD	Yes (GPS, speed, RSSI, current, voltage, etc.)
Driving Device Compatibility	Logitech G29/G920/G923, Fanatec, Moza (list continuously updated)
Certifications	CE (RED), FCC, IC, RoHS, REACH
Radio Frequency	2414 – 2453 MHz
Maximum TX Power (EIRP)	9,7 dBm (≈ 9,3 mW)
Minimum RF Safety Distance	20 cm

2. Regulatory Compliance

European Union (CE) Declaration of Conformity

The STEP IN DRIVE system is designed and manufactured in compliance with the following European directives and regulations:

- **Directive RED 2014/53/EU** – Radio equipment, electromagnetic compatibility and efficient use of radio spectrum
- **Directive RoHS 2011/65/EU and (EU) 2015/863** – Restriction of the use of certain hazardous substances in electrical and electronic equipment
- **Regulation REACH (EC) 1907/2006** – Registration, evaluation, authorisation and restriction of chemicals
- **Low Voltage Directive 2014/35/EU** (where applicable)
- **Electromagnetic Compatibility Directive 2014/30/EU**
- **Regulation (EU) 2019/1020** – Market surveillance and product compliance

The full Declaration of Conformity is available on the website or upon written request.

FCC Compliance (United States)

This device contains a module compliant with the limits for Class B digital devices, as described in Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Class B digital device limits are designed to provide reasonable protection against harmful interference in residential environments. This product generates, uses, and can radiate radio frequency energy and, if not used in accordance with the instructions, may cause harmful interference to radio communications. The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada – Industry Canada (IC)

This Class B digital apparatus complies with Canadian standards ICES-003 and RSS-Gen. This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSS standards. Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

IC: ongoing activities
HVIN: STEPIN-DRIVE
FVIN: ongoing activities

3. RF Exposure Statement

The STEP IN DRIVE system has been evaluated and complies with the radio frequency (RF) exposure limits established by the following regulations:

European Union (RED 2014/53/EU – Article 3.1a – Health and Safety)

- EN 62368-1:2014 + A11:2017 (electrical safety)
- EN 50663:2017 (RF exposure assessment for low-power devices)
- EN 62479:2010 (compliance assessment for low-power devices)

The product is classified as low-power equipment and does not require additional protection measures when installed and used under normal conditions.

United States (FCC)

Compliant with FCC RF exposure guidelines (OET Bulletin 65 Supplement C) and 47 CFR §§1.1307, 1.1310, 2.1091, 2.1093. SAR evaluation not required due to low transmission power.

Canada (ISED)

Compliant with Health Canada Safety Code 6 and RSS-102. SAR evaluation not required for the same reason.

Usage conditions to maintain compliance

- Minimum distance of **20 cm** between the antenna and the body of the user or nearby persons.
- Do not co-locate or operate with other unauthorised antennas or transmitters.

RF technical data

- Operating frequency: 2414–2453 MHz
- Maximum transmit power (EIRP): 9.7 dBm

4. Before Proceeding

Read carefully and follow all instructions in this manual and any attached material to avoid serious damage to the system or the RC model. Failure to follow these instructions will be considered misuse and/or negligence. Before using the system, read the entire manual carefully. If for any reason you decide it is not what you expected, do not proceed. The retailer cannot accept returns or replacements after the product has been used.

- **Warning**: 🔴
- **Suggestion**: 🔵

5. Support

For any questions about STEP IN DRIVE or its operation, contact STEP IN directly via the website or email at mailto:info@stepinfactory.com
Join our online community at https://stepinfactory.com
Do not hesitate to contact us for any product support needs.

6. Safety Precautions

STEP IN wants you to enjoy your new STEP IN DRIVE, along with the RC model you've chosen to install it on, in complete safety. Use them with caution and care, and it will be exciting, safe, and fun for you and those around you. Failure to use them safely and responsibly can cause property damage and serious injury. The precautions described in this manual must be strictly followed to ensure safe operation. You alone are responsible for ensuring that the instructions are followed and that the precautions are observed.
Important Points to Remember

• STEP IN DRIVE, along with the model, is not intended for use on public roads or congested areas where its operation could interfere with or disrupt pedestrian or vehicular traffic.

• Never, under any circumstances, use STEP IN DRIVE and the model in a crowd of people. Your model could cause serious injury if it collides with someone.

• Do not operate your system alone; have someone with you who can warn you of approaching people or animals.

• Because STEP IN DRIVE controls the model via radio, it is subject to radio interference from many sources beyond your control. Since radio interference can cause temporary loss of connection with the model, always allow a safety margin in all directions around the model to avoid collisions.

• Do not use at night or any time when your view of the model may be obstructed or impaired in any way.

• Consult the owner's manual for the RC model used with STEP IN DRIVE for additional safety points. Always refer to the manufacturer's owner's manual for your RC model for safe operation.

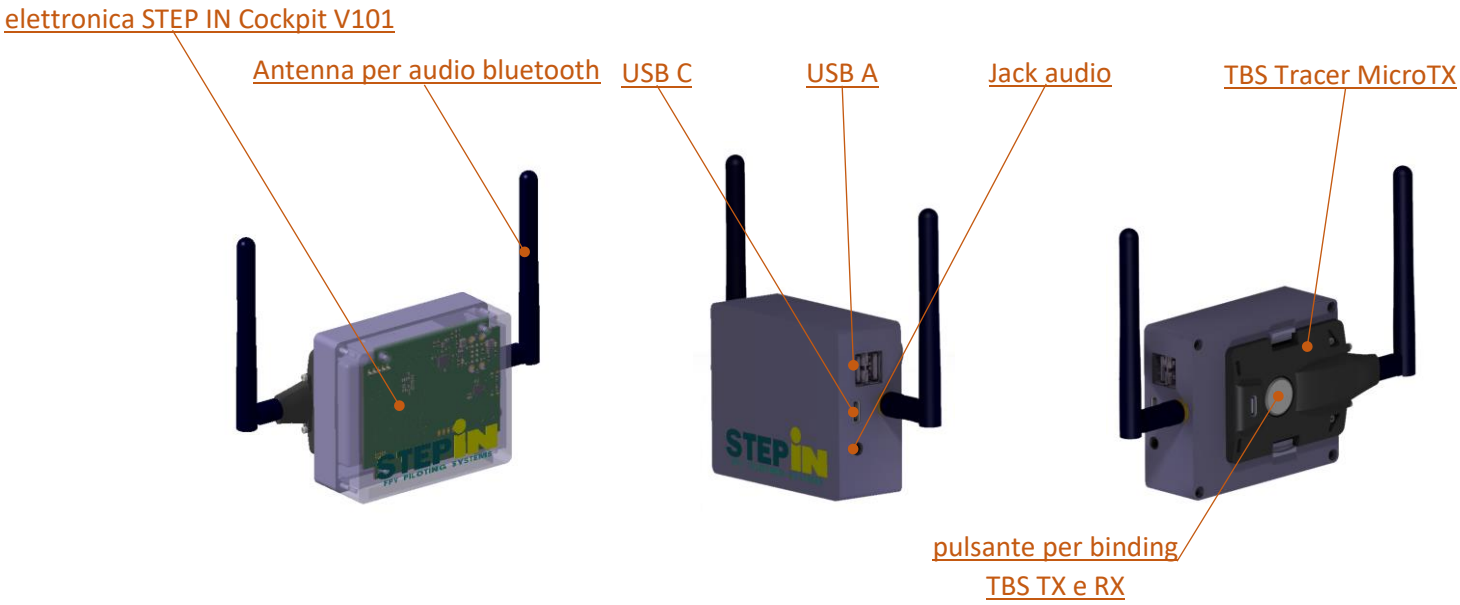
• Above all, always use common sense.

7. STEP IN DRIVE System: Cockpit and Snorkel

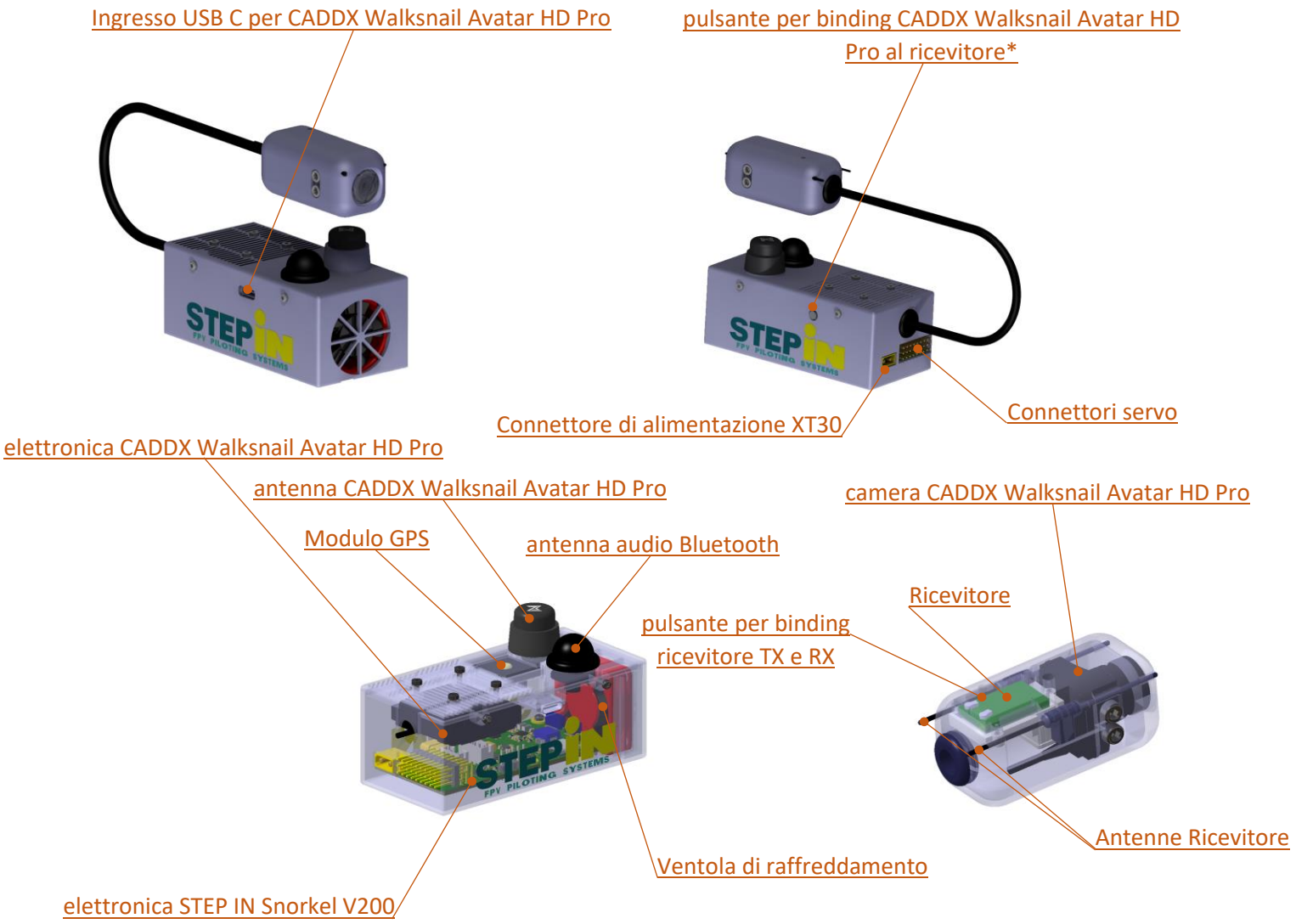
The STEP IN DRIVE system consists of two main units: Cockpit (to be placed near the driver's seat) and Snorkel (to be installed on the RC model).

Cockpit

This is the control unit to be placed near the driving position. It is based on proprietary STEP IN electronics governed by an STM32H743XIH6 microcontroller and is equipped with a Bluetooth module for connection to iOS or Android smartphones and for audio reception. The control unit interfaces with the TBS Crossfire transceiver with which to control the RC model and, via the double USB-A port, allows connection to various devices for driving and driving feedback. It also has a 3.5 mm jack connector for audio output (mono) and a USB-C port for power. The control unit, and the devices connected to it, are configured via the Step In App available for iOS or Android systems via Bluetooth connection. In the image, as an example, the possibility of adjusting the steering characteristics via the App using a Logitech G29.



Snorkel


Ingresso USB C per CADDX Walksnail Avatar HD Pro
pulsante per binding CADDX Walksnail Avatar HD Pro al ricevitore*
Connettore di alimentazione XT30
Connettori servo
elettronica CADDX Walksnail Avatar HD Pro
antenna CADDX Walksnail Avatar HD Pro
Modulo GPS
antenna audio Bluetooth
camera CADDX Walksnail Avatar HD Pro
Ricevitore
pulsante per binding ricevitore TX e RX
Antenne Ricevitore
Ventola di raffreddamento
elettronica STEP IN Snorkel V200

Main components of the STEP IN DRIVE system

Cockpit (STEP IN Cockpit V101 electronics)

- Bluetooth Audio Antennas
- USB-C port (5V power supply)
- 2× USB-A ports (connection of steering wheels, pedals and other driving devices)
- 3.5 mm audio jack (mono audio output)
- TBS Crossfire Micro TX Module (2.4GHz transmitter for model control)
- TBS Crossfire binding button
- Status LED and power button (in some versions)

Snorkel (STEP IN Snorkel V200 electronics)

- Camera CADDX Walksnail Avatar HD Pro (digital video FPV)
- Antenna video Walksnail Avatar HD Pro
- Antenna audio Bluetooth
- Built-in GPS module
- 6-axis IMU (for realistic driving feedback)
- Cooling fan
- USB-C port for CADDX Walksnail Avatar HD Pro firmware update and video download
- Walksnail Avatar HD Pro binding button
- XT30 power connector (2S only – 7.4V)
- 9 servo connectors (control channels + 8V power supply for servos and accessories)
- Integrated TBS Crossfire Nano RX receiver
- TBS Crossfire receiver antenna

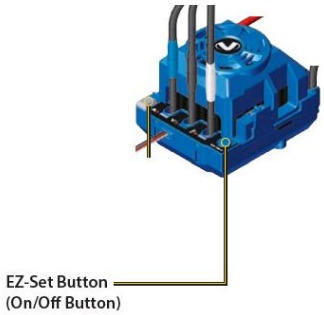
Important Note: The Snorkel must be powered exclusively by a 2S battery (7.4V nominal). Higher voltages (3S or more) will irreparably destroy the electronics.

8. Quick Start

The following guide provides an overview of how to get your model up and running.

1. **Preparation**: Read the entire manual and check that all components are present (Cockpit, Snorkel, cables, camera).
2. **Installation**: Place the Cockpit near the cockpit and install the Snorkel on the RC model (see Section 10).
3. **Power Supply**: Connect the power supply to the Cockpit (5V USB-C) and the 2S battery to the Snorkel (see Section 11).
4. **Binding**: Bind between transmitter and receiver (see Section 15).
5. **App Configuration**: Download the StepIn App, connect via Bluetooth and configure device/feedback (see Section 13).
6. **Turning On the RC Model**

– If you are using a Traxxas model (Maxx, X-Maxx, E-Revo 2.0, etc.) or other models with ESC equipped with an EZ-Set / On-Off button:
PRESS AND HOLD THE ON/OFF BUTTON on the ESC for at least 2 seconds until you hear the power tone or see the LED turn green/solid.
This step is mandatory: without pressing the button, the ESC remains off



EZ-Set (On/Off) button on Traxxas ESC (example). Press until the pattern turns on..

7. **RM (Reverse Motor) mode** – Electric models ONLY

   Most modern ESCs have the reverse (reverse brake) function disabled by default.

   With RM disabled, the model brakes only with mechanical brakes → weak and unrealistic braking.

   Verify and enable MRI on your ESC:

   • Traxxas TQi / VXL → Press and hold the SET button until the green LED is solid

   • Hobbywing → Use the programming board or app

   • Castle → Castle Link

   • Arrma / Losi / Tamiya → see specific ESC manual

With RM active, braking is as powerful and realistic as in a real car

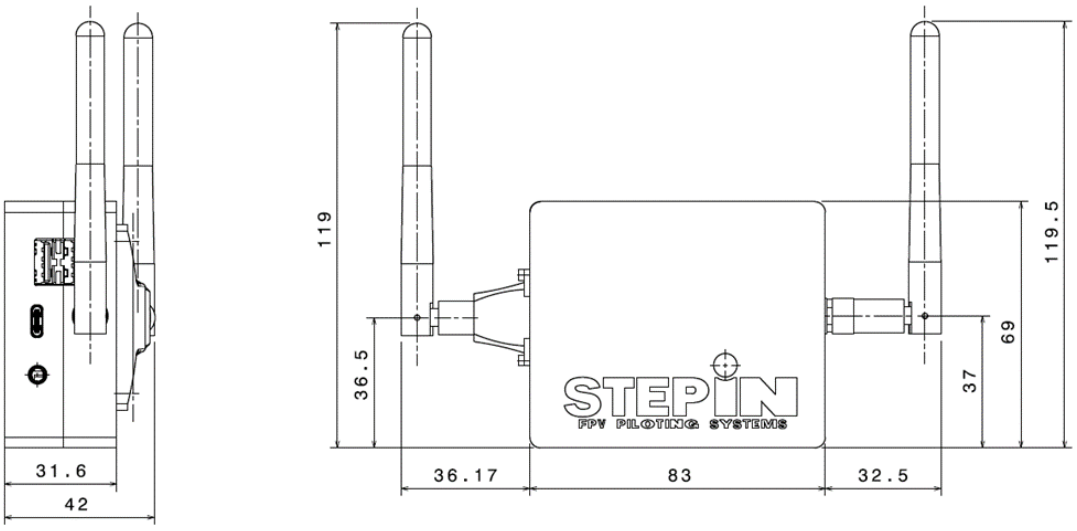
IMPORTANT – ENGINE BRAKING (REVERSE)
For powerful and realistic braking, activate the Reverse Motor (REV) function on your ESC.
Without RM the model brakes only with mechanical brakes → light braking. With active REM → braking like in a real car!
See page XX for instructions for the main ESCs.

8. **Test**: Turn on the system, verify OSD, and test the check in a safe area.
9. **FPV Launch:** Put on goggles or use monitors, and start riding with a margin of safety.

9. Dimension

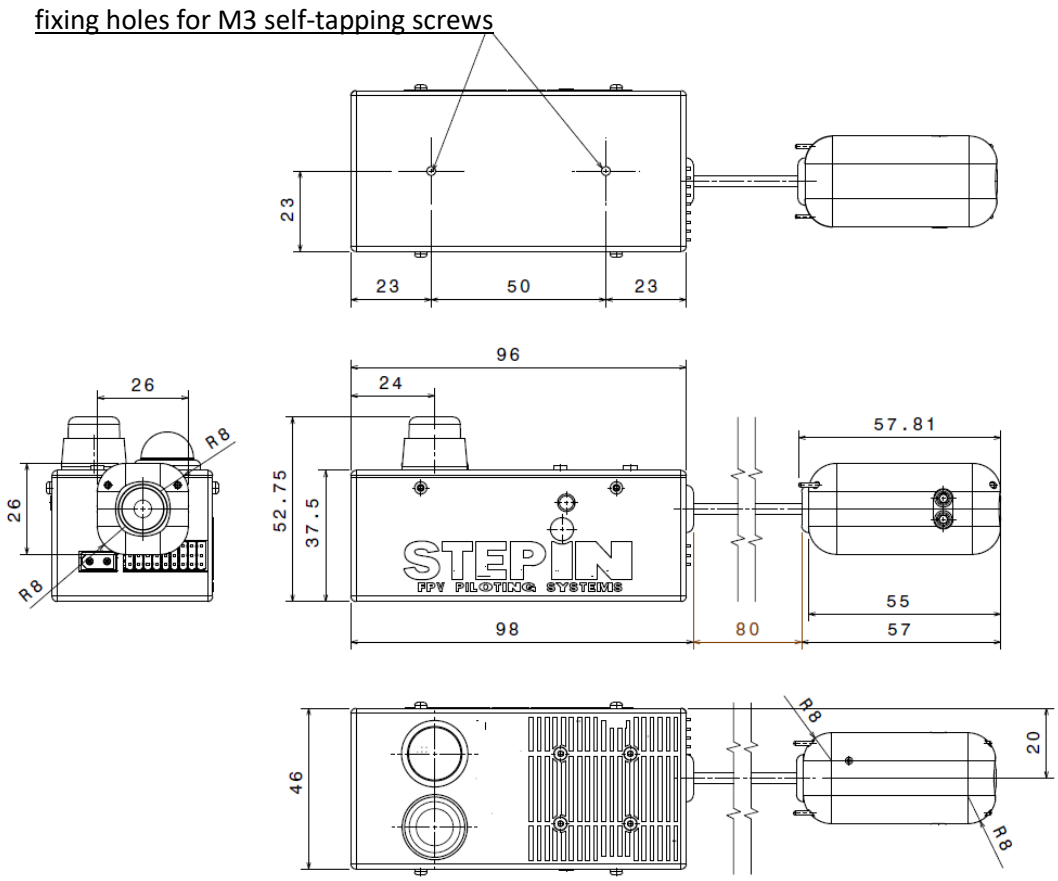
Cockpit

- : 150 mm x 100 mm x 50 mm (length x width x height).
- Weight: 120 gr.



Snorkel

- Body dimensions: 98 mm x 46 mm x 52.75 mm.
- Body weight: 90 gr.
- Camera: Dimensions 57 mm x 26 mm x 26 mm, weight 20 gr.



10. Step In DRIVE Installation

Cockpit Installation

Place the Cockpit near the driver's seat so that you can easily connect the devices and the power supply. The Cockpit is supplied with Dual Lock™ Tape to easily position it on the chosen surface and be able to remove it easily. In order not to have transmission problems to the Snorkel installed on the RC model, it is necessary that the Cockpit is in a position that freely sees the area in which you want to use your model.

Warning: Walls or other obstacles between the Cockpit and Snorkel can lead to loss of control of the RC model. The cockpit does not have an on/off button. Only plug in the power cord when you decide to use it. You will get status feedback by looking at the transmitter on the back. If the Cockpit is powered you will see an orange light on around the transmitter binding button.

Installation with Camera

WARNING: To ensure effective protection of the Snorkel and camera, it is important that they are installed inside the RC model so that the bodywork protects them from impact. You can also install them externally but make sure you make adequate protections. STEP IN is not responsible for damage or breakage due to inadequate installation. Locate an area in your RC model where the Snorkel body is to be installed making sure it is not forced to fit the body. It is preferable to create a support base fixed to the frame on which to install the body of the Snorkel. However, the solution of fixing the body directly to the frame is also valid if space permits. Due to its low weight (90 gr), even if predisposed, it is not necessary to fix the body to the base with screws. Scotch Dual Lock™ ensures a secure attachment but

you can also use other methods, the important thing is to ensure that the body is well constrained. The Snorkel has a fan inside for cooling the electronic components, in installation make sure not to occlude the upper grilles of the body and the fan outlet to ensure proper internal airflow. The camera, if mounted inside the model, must be bound to the frame by means of a mount (not included in the kit). The camera does not need to be positioned perfectly horizontally, but it can accept an inclination of up to +7.5° without compromising the quality of vision. The position and tilt of the camera is related to how you want to position it in relation to the windshield.

Installation examples

Tamiya TT02 Installation Example

with original motor and ESC

Tamiya TT02 Installation Example

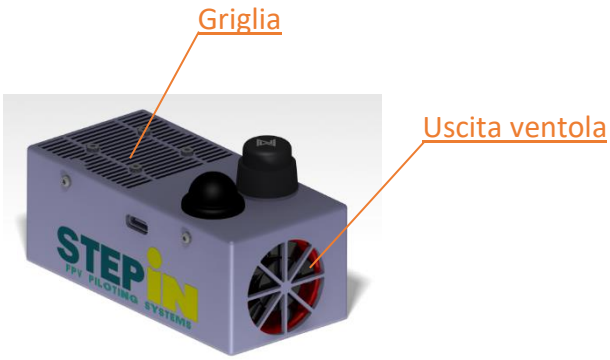
with HobbyWing motor and ESC

Example installation on HyperGo

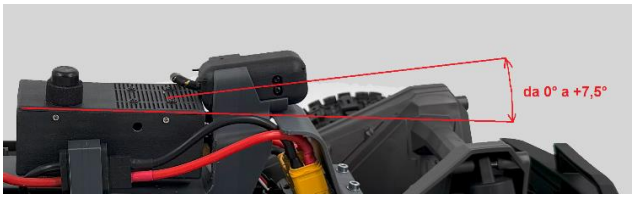
Example installation on Traxxas Maxx

Example installation on Mecatech FW01

Internal air flow



Camera tilt

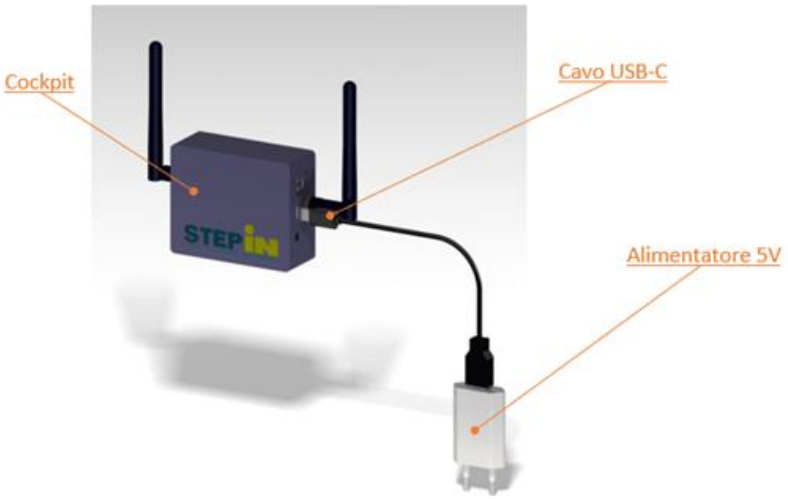


Warning: The windshields of RC models do not offer sufficient transparency for the quality of vision and an opening must be made at the camera. With only 20 g of weight, you can attach the camera to its mount even with just double-sided tape. You can install the camera on the roof of the model with adequate protection (rollbar).

11. Power supply

Cockpit

To power the Cockpit, use a 5V 1 to 3A power supply connected to the USB-C socket.

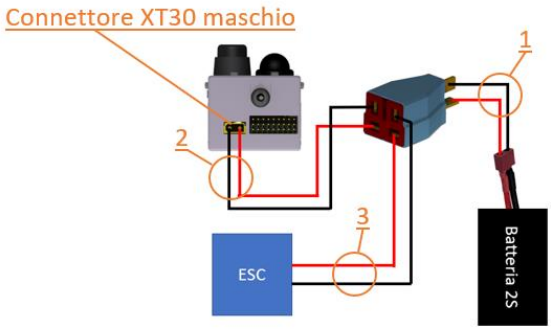


Snorkel

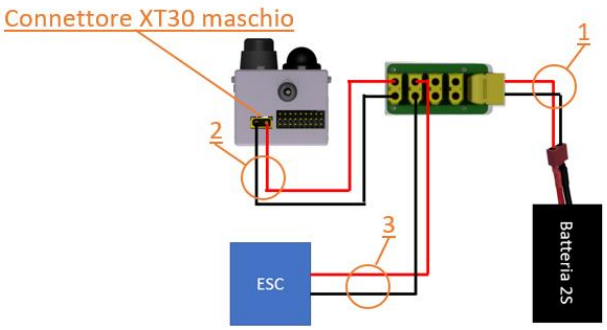
WARNING: The Snorkel can only be powered by 2S batteries. Higher voltages will damage it beyond repair while lower voltages do not ensure proper operation. You can use the battery of your RC model for power, making sure it is a 2S. Create a "Y" to which to connect the battery, the Snorkel and the ESC of the electric motor installed on the model (see connection diagram in the images). The "Y" is easily available at specialized model shops. As an alternative to the "Y" you can use a distribution card. Once you have chosen the connection method, you need to make interconnect cables 1, 2 and 3:

- **Cavo 1**: Connect the battery to the "Y" or "Distribution Board". Its cross-section must be the same as the battery cables.
- **Cavo 2**: The Snorkel to the "Y" or "Distribution Board" with a gauge of at least 14 AWG.
- **Cavo 3**: Connect the "Y" or "Distribution Board" to the electric motor ESC in models where provided. It uses the same section of cable used to make Cable 1.

  For all cables, use copper cable with silicone sheath.



Schema collegamenti con "Y"



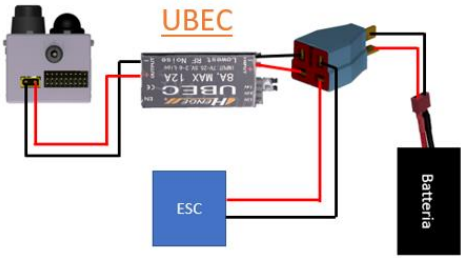
Schema collegamenti con "scheda di distribuzione"

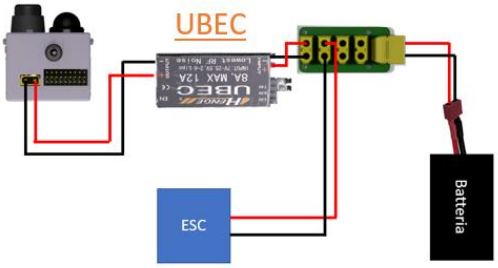
WARNING: When making the cables, you must pay particular attention to the polarities of the connectors. Polarity reversals create irreparable damage to the electronics and can lead to battery explosion.

WARNING: It is essential to make the best soldering of the cables on the connectors to ensure correct contact and at the end protect them with a heat-shrink sheath. STEP IN is not responsible for damage or malfunctions due to incorrect cable construction. If you do not feel able to safely make the cables, please contact your trusted dealer.

Using a UBEC to Power Your Snorkel

If your RC model is equipped with a 3S, 4S, 5S or 6S battery, therefore not directly compatible for the power supply of the Snorkel, you must interpose a UBEC that as input voltage is compatible with the battery you use and that has an output voltage of 7.4 or 8V and at least 10A between the battery and the Snorkel. The characteristics of the UBEC must be: input voltage 7-25.5V (batteries from 2 to 6 LiPo cells), output voltage of 7.4 and/or 8V with 10A continuously deliverable current. Follow the UBEC manufacturer's installation instructions carefully.





ATTENTION – Traxxas models and similar

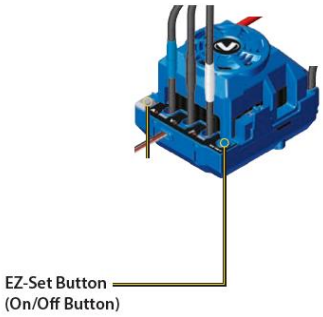
Many Traxxas models (Maxx, X-Maxx, E-Revo, Slash 4x4 VXL, etc.) and some other brands use ESCs with physical power button (EZ-Set Button or On/Off Button). Even if the battery is plugged in, the ESC remains completely off until you press and hold this button for 1–3 seconds (you will hear a beep or see the LED light up).

If you don't press the button:

– the Snorkel does not receive power

– no FPV video signal

– no model check



EZ-Set (On/Off) button on Traxxas ESC (example). Press until the pattern turns on

(Reverse Motor) mode – recommended for all electric models

To achieve realistic and powerful braking (like on a real car), it is strongly recommended to activate the "Reverse Motor" or "Drag Brake with engine reversal" function present on most ESCs.

Most common ESCs – how to activate it:

• Traxxas VXL / XL-5 → press and hold the SET button on the ESC until the LED turns solid green ("Sport" mode with RM on)

• Hobbywing Max8 / Max10 / QuicRun → use the programming board → set "Drag Brake Force" > 70 % or "Reverse Type = Reverse with brake"

• Castle Creations → Castle Link → set “Motor Direction = Reverse” e “Drag Brake” > 50 %

• Other brands → consult the ESC manual under "Reverse" or "Drag Brake"

With reverse deactivated, braking is weak and not very immersive.

With active RM you get very realistic engine braking that can be controlled from the pedal.

IMPORTANT – ENGINE BRAKING (REVERSE)
For powerful and realistic braking, activate the Reverse Motor (REV) function on your ESC.
Without RM the model brakes only with mechanical brakes → light braking.
With active REM → braking like in a real car!
See page XX for instructions for the main ESCs.

To achieve realistic and powerful braking (like on a real car) activate the "Reverse Motor" or "Strong Drag Brake" function on your ESC.

Brand / ESC	**How to activate strong motor braking (Reverse / Drag Brake)**	**Important Notes**
Traxxas VXL / XL-5 / TQi	Press and hold the SET button on the ESC until the LED turns solid green (Sport Mode).	Red = Training (50%), Blinking Green = Racing (100% without Reverse), Solid Green = Reverse active.
Hobbywing Max8 / Max10 / QuicRun	With the program card → “Drag Brake Force” ≥ 70% or “Reverse Type = Reverse with brake”.	0% = weak braking, 80-100% = very strong braking.
Castle Creations Mamba / Sidewinder	Castle Link → “Drag Brake” ≥ 50% and “Motor Direction = Normal” (or Reverse if the motor spins backwards).	The higher the value, the stronger the motor braking.
Arrma / Spektrum Firma / BLX	Spektrum Programmer → “Drag Brake” = 75-100%.	Default is often set to 25-50%.
Team Associated Reedy	Program card → “Drag Brake” = High or Full.	“Low” = weak braking.
Tamiya TBLE-02S / TBLE-04S	Switch on the receiver → “R” position (Reverse).	“F” Position = mechanical brake only.

12. Peripherals and Features

Cockpit

The Cockpit can interface via the USB-A port to various driving devices on the market and the implementation of additional devices is planned. Your feedback on the devices you prefer is important. The StepIn technology allows you to have feedback from the model on your devices that can be set via app (see Section 13).

Snorkel

The Snorkel interfaces with the various utilities on the RC model according to the diagram below. Use the AUX inputs to connect fans or other accessories installed on the model.

Col.	Name
C1	Stearing
C2	Trottle
C3	Front Brake
C4	Rear Brake
C5	Aux
C6	Aux
C7	Aux
C8	Aux
C9	Aux
Row	**Name**
R1	GND
R2	VBAT
R3	PWM

WARNING: VBAT is 8V, if you connect accessories operating at lower voltages you risk damage. If you use the Snorkel with an RC model equipped with an ESC and electric motor, you must absolutely remove the power terminal from the 3-pole connector coming from the ESC and protect it with a shrink sleeve.

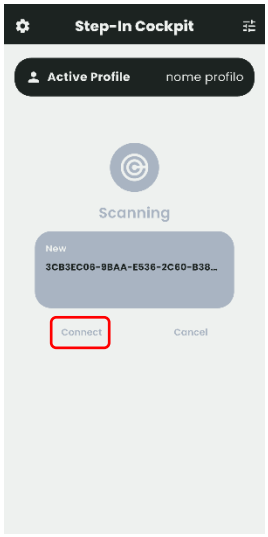
13. StepIn App – Complete Guide

The StepIn app (available for free on the App Store and Google Play) is the only tool you need to fully configure your STEP IN DRIVE system.

13.1. First Cockpit Connection

- Turn on the Cockpit by plugging in the USB-C power adapter.
- Turn on Bluetooth on your smartphone.
- Open the StepIn app and the cockpit is automatically recognized.

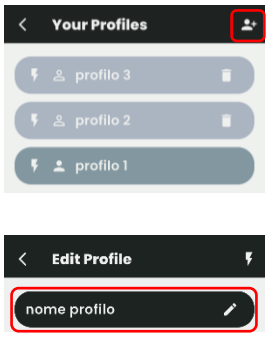
  "Connect".
  → When the connection is active, you will see the green Bluetooth symbol and the real-time RSSI value at the top right.



13.2. Profile creation and management

- Press the "+ New Profile" button.
- Give it a meaningful name (e.g. "Traxxas Slash 2WD – Asphalt", "Arrma Kraton 6S – Off-road", "Los04024 Nitro – Track").

  You can rename or delete existing profiles from the side menu.



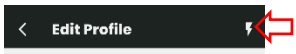
13.3. Select Model Type

At the top left you will find the button with the engine icon.

Press to choose from:

- RC Electric
- Combustion RC

This choice automatically influences the logic of some feedback and the display of some parameters.



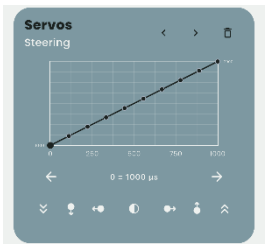
13.4. Servo curve adjustment

- Tap on the "Servo" tab.
- Select the channel to adjust (Steering, Throttle, Brake, AUX1... AUX7).
- You can change the curve in three ways:

  1.Individual stitch movement (10 stitches can be changed with arrows)

  2. Vertical displacement of the entire curve (ideal for correcting steering drift)

  3. Vertical mirror (for quick reversal of the servo's direction)



Arrows for selecting points individually

Arrows for moving individual points

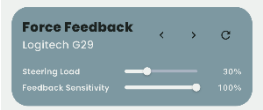
Vertical arrows to raise/lower the entire curve

Mirror button

13.5. Driving peripherals (steering wheels, pedals)

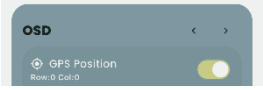
- Go to the "Peripherals" tab.
- The app automatically recognizes the device connected to the USB ports of the Cockpit (Logitech G29/G920/G923, Fanatec CSL/DD, Moza R16, etc.).
- Adjust:
  – Flying load (overall resistance)
  – Force Feedback Intensity
  – Damping filter

  Press "FFB Test" to check the answer immediately.



13.6. On-screen OSD messages

- "OSD" tab.
- Toggle the data you want to view in FPV: GPS speed - Battery voltage - Instantaneous current - Radio RSSI - mAh consumption - GPS coordinates - Timer - etc.
- Drag each element to place it wherever you want it on the screen.



Data can be turned on/off

Buttons for data positioning

13.7. Rescue

All changes are automatically saved in the Cockpit: even without a smartphone connected, the model will keep the settings you set.

14. On-screen OSD messages

The system provides on the screen, and partly present on the App, various information useful for the use of the model and they are:

- GPS Position: Current GPS position.
- RSSI link: Radio signal strength.
- Current: Current consumed.
- Velocity: Speed of the model.
- Battery Status: Battery status (voltage, percentage).

On-screen OSD messages can be positioned via the App (see Section 13). In addition to the information from the system, other information is provided by the CADDX Walksnail Avatar HD Pro video system and they are:

1. Battery voltage
2. Flight/recording time.
3. Video mode.

Signal indicator.

Etc.

For further information, consult the CADDX Walksnail Avatar HD Pro manual available at the link https://caddxfpv.com/pages/user-manual

15. Transmitter/Receiver Binding

The Step In Drive system comes with the receiver and transmitter already connected to each other. If you need to reconnect the receiver and transmitter, follow these steps:

- Turn off the receiver.
- Turn on the transmitter and set the binding mode.
- Turn on the receiver.
- Press the bind button on the receiver.
- After binding, the flashing may recur, but should disappear after a few seconds.

16. Binding CADDX Walksnail Avatar HD Pro

To connect CADDX Walksnail Avatar HD Pro electronics to goggles or FPV monitors:

1. Turn on the Snorkel.
2. Press the bind button on the Caddx camera.
3. On the receiving device (e.g. goggles), activate the binding mode.
4. Wait for confirmation (green LED or audio beep).
5. Test the video connection.

If the binding fails, check for interference and try again in an open region.

17. CADDX Walksnail Avatar HD Pro Setup

Via the USB port on the Snorkel:

1. Connect to a PC.
2. Use Caddx software to set video resolution, FPS, exposure, etc.
3. Save and restart.

References: See CADDX Walksnail Avatar HD Pro manual for advanced options such as custom OSD or image filters.

18. Video Recording

The CADDX Walksnail Avatar HD Pro camera supports recording on internal memory up to 32GB. You can expand the recording space via a microSD card to install on your chosen receiver.

1. Insert a microSD card into the receiver slot.
2. Via app or goggles, start recording.

The files are saved in MP4 format. Log in via USB to download.

Tip: Use SD class 10 or higher to avoid frame loss.

19. Firmware Update (FW)

FW StepIn Update

1. Download the latest FW from the STEP IN website.
2. Connect Cockpit/Snorkel via Bluetooth to the app.
3. Select "Update FW" and follow instructions.

TBS FW Upgrade

For TBS Crossfire:

1. Use TBS Agent tool (downloadable from TBS website).
2. Connect transmitter via USB.
3. Update and verify.

CADDX Walksnail Avatar HD Pro FW Update

1. Connect Snorkel via USB to PC.
2. Use Caddx software to upload new FW.
3. Restart and test video.

CAUTION: Do not interrupt during the update to avoid bricking the device.

20. Troubleshooting and Maintenance

Common Issues

- **No Video Signal**: Check CADDX Walksnail Avatar HD Pro binding and power supply.
- **Loss of Control**: Checks RSSI and interference; Reduce distance.

- **Overheating**: Ensures air flow Snorkel fan.
- **App not connecting**: Restart Bluetooth and device.

Maintenance

- Clean the camera and fans of dust regularly.
- Check cables for wear.
- Store in a dry place; Avoid moisture.

If you're still having trouble, contact support.

21. Glossary

- **FPV**: First Person View
- **RSSI**: Received Signal Strength Indicator
- **ESC**: Electronic Speed Controller
- **UBEC**: Universal Battery Elimination Circuit
- **OSD**: On-Screen Display

Thank you for choosing STEP IN DRIVE. Have fun!